APPENDIX A

PROPOSED COUNTS

1. A polythioether comprising:

$$H-S-R^1-[-S-CH_2-CH_2-O-(-R^2-O-)_m-CH_2-CH_2-S-R^1-]_n-S-H$$

wherein

R^1 is selected from the group consisting of C_{2-6} n-alkylene, and a $-[(-CH_2)_p-X]_q-(-CH_2)_r-$ group;

R^2 is selected from the group consisting of C_{2-6} n-alkylene, and C_{6-8} cycloalkylene;

X is selected from the group consisting of O and S;

m is an integer between 1 and 10;

p is an integer between 2 and 6;

q is an integer between 1 and 5;

r is an integer between 2 and 10; and

n is an integer between 1 and 60 selected so that the molecular weight of the polythioether is between 1,000 and 10,000 Daltons.

– OR –

A polythioether comprising:

$$R^4-S-[-R^1-S-CH_2CH_2-(R^2)_m-S-]_n-R^1-S-R^4$$

wherein

R^1 is a C_{1-10} alkyl, $-(R^3Q)_pR^3-$ or C_6-C_{20} aryl where Q is O or S,

each R^3 is independently C_{1-6} alkyl, and

p is an integer between 0 and 6;

R^2 is C_{1-6} alkyloxy or C_{5-12} cycloalkyloxy,

R^4 is H, C_{1-6} alkyl, C_{1-6} alkyl alcohol and C_{0-6} alkyl substituted with $-[-CH_2CH_2(R^2)_m-]-X$, where X is a halogen,

m is an integer between 1 and 4, and

n is an integer selected to yield a molecular weight for said polythioether of between 1000 and 10,000 Daltons.

2. A curable composition comprising:

40 to 80 weight percent of a polythioether polymer according to count 1,

5 to 60 weight percent of a filler and 10 weight percent of a curing agent,

- OR -

A curable composition comprising

42 to 80 weight percent of a polythioether polymer according to count 1,

and 0.3 to 15 weight percent of a light weight filler

and 0.1 to 20 weight percent of a curing agent.